

Title (en)  
BONE JOINING APPARATUS

Title (de)  
KNOCHENVERBINDUNGSVORRICHTUNG

Title (fr)  
APPAREIL DE JOINTURE D'OS

Publication  
**EP 3037067 A1 20160629 (EN)**

Application  
**EP 15201790 A 20100219**

Priority  

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- US 2010024833 W 20100219

Abstract (en)  
Provided is a bone joining device suitable for joining a first bone piece to a second bone piece. Also provided is a method of joining a first bone piece with a second bone piece in a living mammal. The method comprises inserting the above bone joining device between the first bone piece and the second bone piece.

IPC 8 full level  
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CPC (source: EP KR US)  
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Citation (applicant)  

- US 7291175 B1 20071106 - GORDON DAVID J [US]
- US 7041106 B1 20060509 - CARVER ANDREW [US], et al
- US 6454808 B1 20020924 - MASADA KAZUHIRO [JP]
- US 6383223 B1 20020507 - BAEHLER ANDRE [CH], et al
- US 6099571 A 20000808 - KNAPP JOHN G [US]
- US 5919193 A 19990706 - SLAVITT JEROME A [US]
- US 5810591 A 19980922 - HUBER PETER [CH]
- US 5443467 A 19950822 - BIEDERMANN LUTZ [DE], et al
- US 5290314 A 19940301 - KOCH RUDOLF [CH], et al
- US 5207712 A 19930504 - COHEN MICHAEL [US]
- US 5062851 A 19911105 - BRANEMARK PER-INGVAR [SE]
- US 5037440 A 19910806 - KOENIG RICHARD D [US]
- US 4908031 A 19900313 - FRISCH ELDON E [US]
- US 4304011 A 19811208 - WHELAN III EDWARD J
- US 4246662 A 19810127 - PASTRICK DANNY L
- US 3991425 A 19761116 - MARTIN LAWRENCE L, et al
- US D277784 S 19850226 - SGARLATO THOMAS E, et al
- US 2006074492 A1 20060406 - FREY THEO [CH]
- US 2006052878 A1 20060309 - SCHMIEDING REINHOLD [US]
- US 2004220678 A1 20041104 - CHOW SHEW PING [CN], et al
- EP 0831757 B1 20011128 - BIONX IMPLANTS OY [FI]
- WO 9716137 A1 19970509 - SARKISIAN JAMES S [US], et al
- WO 9605784 A1 19960229 - MOJE HANS JUERGEN [DE], et al
- WO 9309728 A1 19930527 - ROSA MICHAEL FRANCIS [GB], et al
- JP 2005073740 A 20050324 - ITO KAORU
- DE 19949890 A1 20010607 - COPF PETER [DE]
- GB 2126097 A 19840321 - HOWMEDICA
- GB 1582974 A 19810121 - SCHUETT & GRUNDEI SANITAET
- HETHERINGTON VJ: "Textbook of Hallux Valgus and Forefront Surgery", 2000, article "Metatarsalgia and lesser metatarsal surgery", pages: 429 - 451
- MURRAY PM: "Surface Replacement Arthroplasty of the Proximal Interphalangeal Joint", THE JOURNAL OF HAND SURGERY, vol. 32, 2007, pages 899 - 904, XP022129114, DOI: doi:10.1016/j.jhsa.2007.04.012
- SOKOLOV C: "Une prothese de l'articulation interphalangienne proximale ostéo-intégrée: IPP 2. Premiers resultants - Short term results of the IPP 2 proximal interphalangeal joint prosthesis", CHIRURGIE DE LA MAIN, vol. 25, 2006, pages 280 - 285
- ISELIN F; PRADET G; GOUET O: "Annales de Chirurgie de la Main", vol. 7, 1988, article "Désarthrodèses-arthroplasties interphalangiennes proximales - Conversion to Arthroplasty from Proximal Interphalangeal Joint Arthrodesis", pages: 115 - 119
- KONKEL KF; MENDER AG; RETZLAFF SA: "Hammer toe correction using an absorbable intramedullary pin", FOOT & ANKLE INTERNATIONAL, vol. 28, 2007, pages 916 - 920
- CATERINI R; FARSETTI P; TARANTINO U; POTENZA V; IPPOLITO E: "Arthrodesis of the toe joints with an intramedullary cannulated screw for correction of hammertoe deformity", FOOT & ANKLE INTERNATIONAL, vol. 25, 2005, pages 256 - 261
- EDWARDS WH; BEISCHER AD: "Interphalangeal joint arthrodesis of the lesser toes", FOOT & ANKLE CLINICS NORTH AMERICA, vol. 7, 2002, pages 43 - 48

Citation (search report)  

- [A] US 6458134 B1 20021001 - SONGER MATTHEW N [US], et al

- [A] US 5417692 A 19950523 - GOBLE E MARLOWE [US], et al
- [A] EP 1632200 A1 20060308 - ESKA IMPLANTS GMBH & CO [DE]
- [A] FR 2651119 A1 19910301 - FELMAN DANIEL

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EP 3037067 B1 20180808; ES 2564430 T3 20160322; JP 2012518483 A 20120816; KR 20110139229 A 20111228; US 10357299 B2 20190723;  
US 2011004255 A1 20110106; US 2014243910 A1 20140828; US 2017290614 A1 20171012; US 8715325 B2 20140506;  
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KR 20117021700 A 20100219; US 201414270542 A 20140506; US 201715632714 A 20170626; US 70942610 A 20100219